

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JAN 14 1987

Dr. James R. Campbell, Ph.D.  
Program Manager, Previously  
Operated Properties  
Keystone Environmental Resources, Inc.  
436 Seventh Avenue  
Suite 1940  
Pittsburgh, PA 15219

Re: South Cavalcade site

Dear Dr. Campbell:

In follow-up to numerous discussions we have had on the subject of the deep monitoring well and your November 19, 1986, letter we offer the following comments:

1. The gradient of the groundwater in the 200 foot range must be determined. According to the well inventory prepared by McBride-Ratcliff there are several wells screened in the range of interest within 2 miles of the site. Specifically, Wells Nos. LJ-65-14-415, -432, -709 and -710 appear to still exist.

In conjunction with existing well OW-06 onsite, it may be possible to determine the groundwater gradient using data from existing wells. Koppers should make every effort to do so. We share your desire, however, to use only dependable data in such an exercise.

2. Considering the zone user information we have, the groundwater at the 200 foot range has been used extensively if only on a small volumetric scale. This clearly indicates the zone's potential to be used in the future.

A 550 foot well, possibly screened at several intervals, is known to exist in the vicinity of past plant operations and could be an avenue for vertical contaminant movement. A negative vertical gradient exists between aquifers and evidence exists of contaminant migration to the intermediate aquifer.

These site characteristics, factored in with the health risks associated with the PHAs common to Koppers' wood treating/coal tar operation, require parts per trillion analysis of the groundwater at the 200 foot range.

3. In the material provided with your November 19, 1986, letter you proposed 2 alternative locations for the monitoring well. You mentioned that the locations were within the suspected contaminant plume. We would appreciate more information on which you based your conclusion and we agree that placement of the well in the plume is necessary.

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In summary, an acceptable course of action to EPA could involve defending your proposed locations in light of the above comments.

We are anxious, as you are, to proceed with the installation of an effective deep monitoring well and speed the RI/FS process. Should you have any questions please call me at (214) 767-9700.

Sincerely,

Mark W. Potts  
Remedial Project Manager

cc: D. Sorrels, TWC  
R. Petrus, CDH

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